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200	C	AA	5,311,550	5-10-94	Fouche et al.						
1		AB	4,630,287	12-16-86	Armstrong						
		AC	4,271,527	6-2-81	Armstrong						
		AD	5,050,188	9-17-91	Dirr				,		
		AE	5,398,073	3-14-95	Wei						
		AF	5,452,015	9-19-95	Hulyalkar					····	
		AG	5,565,932	10-15-96	Gitta et al.						
		АН	5,481,412	1-2-96	Bannai et al.						
	k	Al	3,909,721	9-30-75	Bussgang et al.	_	<u> </u>	_	<u> </u>		
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· · · · · · · · · · · · · · · · · · ·		AJ	0365431	4-25-90	EP				_		x .
		AK	0485105	5-13-92	<u>EP</u>					х	
		AL	92/14343	8-20-92	wo					X	
		AM	89/08366	9-8-89	wo					x	
202	/	AN	0031193	7-1-81	EP		_	_	-	x	
			отн	ER DOCUMENT(S	\ (Including Author, Title, Date, Per	tinent Page	es, Etc.)				
N.	S	AO			Mb/s 16 QAM Digital Radio eview, January 1982, vol. 2					and 5 GHz	Bands*,
		ΑР			Coding of Television Images, er 2, 1990, no. 3, pages 25		Compa	itible S	ystem",	Signal Proc	essing
	(2)	DA	Mitsuaki Oshima	a, *Constellati	on-Code Division Multiplex f	for Digita	I HDTV	*, IEEE	, 1992,	pages 108	6-1092.
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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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7	10	AA	4,227,152	10-7-80	Godard et al.	_		_			
		AB	4,525,846	6-25-85	Bremer et al.				·		
		AC	4,751,478	6-14-88	Yoshida						
		AD	4,891,806	1-2-90	Farias et al.						
		AE	4,903,125	2-20-90	Parker						
		AF	4,937,844	6-26-90	Kao						
,		AG	5,164,963	11-17-92	Lawrence et al.						
2	<u>.</u>	АН	5,555,275	9-1996	Oshima	7		-	7		
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		AK	0329158	8-23-89	ЕР					x	
		AL	64-5135	1-10-89	JP					×	
1		AM	63-28145	2-5-88	JP					x	
B	.e.	AN	62-133842	6-17-87	JP		-		1	x	
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الر	35	AO	Tricia Hill et al., COM-31, June		nce Study of NLA 64-State Coages 821-826.	DAM", IE	EE Trar	nsactio	ons on Co	mmunicati	ons, vol.
		AP	Hideki Ishio et a 20.	il., "A Proposa	al of a Carrier Digital Transmi	ission Sy	stem U	Ising N	Multi-Leve	I APSK*, p	ages 1-
, ,	NS.	AQ		Digital and Ana	alog Communication Systems	s" 1979	, p. 272	2.			
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ZP	/	AA	5,105,442	4-14-92	Wei						
		AB	4,048,572	9-13-77	Dogliotti et al.						_
		AC	5,282,019	1-25-94	Basile et al.	<u> </u>					
		AD	5,311,547	5-10-94	Wei						
		AE	5,267,021	11-30-93	Ramchandran et al.	<u> </u>					
		AF	5,038,219	8-6-91	Yamashita et al.						
		AG	5,087,975	2-11-92	Citta et al.						
		AH	5,086,340	2-4-92	Citta et al.		<u> </u>	لر			
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		AK	0282298	9-14-88	Europe					x	
		AL	0392538	10-17-90	Europe					x	
		АМ	0490552	6-17-92	Europe					x	
		AN	0506400A2	9-30-92	Europe		ン 			·	
			отн	ER DOCUMENTIS) (Including Author, Title, Date, Per	tinent Pag	es, Etc.)				
		AO	Khaled Fazel et 1081-1085	al., Combined	multilevel coding and multir	resolutio	n modu	lation,	February	, 8, 1993, F	Pages
	V	AP			of an RCPC-Coded OFDM-bons Conference "Globecom"						
⁸ K	V	AQ	K. M. Uz et al., 1992, Pages 28		ltiresolution source coding a	nd modu	lation f	or digi	ital broad	cast of HD7	Γ ν• ,
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UB	AA	5,142,353	8-25-92	Kageyama et al.	-	•				
	AB	5,197,061	3-23-93	Halbert-Lassalle et al.						
	AC	5,291,289	3-1-94	Hulyalkar et al.		,				* .
in	AD	5,166,924	11-24-92	Moose	اا		1-1			
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20	AJ	0448492A1	9-25-91	Europe	_	<u> </u>		 !		
	AK	0485108A2	5-13-92	Europe						
	AL	0525641A2	2-3-93	Europe						
	АМ	0540231A2	5-5-93	Europe				<u> </u>		
عم	AN	0531046A2	3-10-93	Europe			-	<u> </u>		
		отн	ER DOCUMENTIS) (Including Author, Title, Date, Per	rtinent Pag	es, Etc.)				
212	AO	K. M. Uz et al., 69.	Multiresolutio	n Source and Channel Codin	ng for Di	gital Bro	oadcas	t of HDT	V, 1992, P	ages 61-
	АР			evel Block Coded Modulatio , May-June 1993, Pages 32		Unequa	Error	Protection	on for the R	layleigh
ar	AQ	William F. Schre	eiber, Spread-S	Spectrum Television Broadca	asting, S	MPTE .	Journa	l, August	1992, Pag	es 538-
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se	AO				Techniques for 0 May 1992, Page:			sion: A Review	v, Multidim	ensional
	АР	Ezio Biglieri et a	I., Introduction	n to Trellis-Cod	led Modulation w	rith A	pplication	ons, April 6, 19	992, Pages	173-207.
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SP	AA	4,636,876	1-13-87	Schwa	ntz	-	-	-			
	AB	4,855,692	8-8-89	Kennard	et al.					ļ	
	AC	4,873,701	10-10-89	Trett	er						
	AD	4,958,360	9-18-90	Şari							
V	AE	5,115,453	5-19-92	Calderban	k et al.						
28	AF	5,168,509	12-1-92	Nakamura	et al.	سرل		_	<u> </u>		
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2R	AJ	0122805	10-24-84	EP	-				•	х	
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202	AO	Kazuhiko Nitado International Co									
**	AP	Thomas M. Cov	er, Broadcast	Channels, IEEE 1	Transactions on	Infor	mation	Theo	ory, Janu	ary 1972, P	ages 2-14
3K	AQ	*Optimum Weig COM-26, No. 6,		Speech Signals" Pages 872-881.	, Sundberg, IEEE	Tra	nsactio	ns o	n Commi	unications, V	olume .
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Sheet 1 of 1			INFORM/	ATION DISCLOSURE STATEM	MENT				
FORM PTO 1449 (<i>i</i>	S. DEPART	TMENT OF COMMERC	CE.	ATTY DOCKET NO. 2000_1390		SERIAL 09/677			
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/DH/	AJ	3-13145	1-22-91	Japan				abstract	
/DH/	AK	4-322592	11-12-92	Japan				abstract	
/DH/	AL	63-253738	10-20-88	Japan				abstract	
/DH/	АМ	62-502932	11-19-87	Japan				abstract	
/DH/	AN	58-107740	6-27-83	Japan				abstract	
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D	4	AA	4,918,437	4-17-90	Jasinski et al.			
		AB	5,023,889	6-11-91	Divsalar et al.			
		AC	5,063,452	11-5-91	Higurashi			
_		AD	5,124,852	6-23-92	Suwa et al.	-		
···		AE	5,136,380	8-4-92	Cho			
		AF	5,146,335	9-8-92	Kim et al.			
		AG	5,148,422	9-15-92	Sako et al.			
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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include cop. this form with next communication to applicant.

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
OIPA	AA	4,597,090	6-24-86	Forney, Jr.				
DEC 16 ME	АВ	4,077,021	2-28-78	Csajka et al.				
اربع ا	AC	2005/0084750	4-21-05	Wang et al.				
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DH	AF	2627574	7-21-04	. CN				
	AG	1529838	5-11-05	EP			abstract	
	АН	1499725	5-26-04	CN			only abstract	
	Al	2004-159207	6-3-04	JP			corresponds to AH	
	AJ	1528854	5-11-05	EP			only abstract	
	AK	52118	12-16-02	UA	-	7-	only abstract	
DH	AL	1569334	1-26-05	CN		-1	1	×
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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy this form with next communication to applicant.

Sheet 1 of 1 INFORMATION DISCLOSURE STATEMENT								
FORM PTO 1449 (n		TMENT OF COMMERC	E	ATTY DOCKET NO. 2000_1390	SERIAL (09/677	420 /	227006	
PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S)				APPLICANT Mitsuaki OSHIMA et al.		HIER		
(Use several sheets if necessary) Date Submitted to PTO: March 22, 2006				FILING DATE October 5, 2000		GROUP 2834 DOIL		
U.S. PATENT DOCUMENTS								
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
DH	AA	4,267,592	5-12-81	Craiglow				
	AB	4,601,045	7-15-86	Lubarsky				
	AC	4,912,706	3-27-90	Eisenberg et al.	•			
	AD	4,914,655	4-3-90	Johannes et al.				
DH	AE	5,018,198	5-21-91	Takahashi				
	AF							
	AG						<u> </u>	
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FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
	AJ							
	AK	 						
	AL							
	AM							
	AN							
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)								
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EXAMINER DATE CONSIDERED 5/4/076								